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ABSTRACT

This list of recommended books and monographs was compiled by the Far West Laboratory for Educational Research and Development during a project designed to develop and test procedures to evaluate and disseminate information on training of education research and development (R&D) personnel. The purpose of the bibliography is to provide guidance for the acquisition of a core collection on training in the areas of theory and practice of educational research, development, diffusion, and evaluation. Its content is sociopsychological, reflecting current disciplinary foundations of educational R&D. Major content areas include planning and management; R&D theory and concepts; R&D process; R&D methodology; diffusion and change; evaluation; objectives and outcomes; tests and measurement; statistics; media; and R&D personnel and training. The majority of the listed items are available from publishers or other distributors. A few out-of-print items have been cited because they are considered unusually valuable. (Author/DDO)

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DESIGN OF A PERSONNEL AND TRAINING
INFORMATION SYSTEM FOR EDUCATIONAL R&D PERSONNEL

RECOMMENDED BOOKS AND MONOGRAPHS

Paul D. Hood

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Research and Development
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U.S. DEPARTMENT OF HEALTH,
EDUCATION & WELFARE
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National Institute of Education
R&D Personnel Task Force

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PREFACE

In July 1972, the Far West Laboratory for Educational Research and Development initiated a project designed to develop and test procedures to evaluate and disseminate information on training of educational R&D personnel. During the Planning Phase of the project, a collection of over 1,000 items (e.g., books, monographs, journal articles, ERIC abstracts and citations, other references, microfiches, and instructional materials) was assembled to provide an experimental file. Later, during the Preliminary Design Phase, over 200 of these items were abstracted for use in pilot testing alternative dissemination methods. Six deliverable by-products have resulted from these activities: (1) A Source Book of Educational RDD&E Literature, (2) A Source Book of Educational RDD&E Case Studies, (3) Catalogue of Educational RDD&E Instructional Materials, (4) Educational RDD&E Personnel and Training Abstracts, (5) Recommended Journals and References, and (6) Recommended Books and Monographs. This document represents the sixth item.

This list of recommended books and monographs, along with the list of recommended journals and references, has been created to provide guidance for the acquisition of a "core" collection on training in the area of theory and practice of educational research, development, diffusion, and evaluation (RDD&E).

The content of this list has a decidedly social-psychological bias, reflecting current disciplinary foundations of educational R&D. Major content areas include: (1) educational R&D roles, policy, strategy and organization, (2) R&D planning and management, (3) R&D theory and concepts, (4) R&D process, (5) R&D methodology, (6) diffusion and change, (7) evaluation, (8) objectives and outcomes, (9) tests and measurement, (10) statistics, (11) media, and (12) R&D personnel and training.

Educational subject matter (e.g., curriculum, administration, financing, facilities, personnel) has been deliberately excluded on the assumption that the R&D training collection would draw from larger educational libraries to meet information needs in these areas. Similarly, a number of possibly relevant disciplinary areas (e.g., history, philosophy, biology, human nutrition, architecture, law) have not been included. Such areas are undoubtedly pertinent to education problems, but are rarely considered part of the educational R&D training curriculum. If a "stand-alone" collection must be created, however, selected holdings on education and related disciplines should be obtained.

Major headings were selected to correspond to commonly recognized categories in R&D course offerings and bibliographic classifications. Originally we attempted to create sharper distinctions between the research and the development categories. Since many of the recommended titles treat both subjects, we have employed the "R&D" combination to avoid arbitrary assignment to either research or development.

The subject areas of objectives and outcomes, tests and measurement, and statistics are sometimes associated with the content of research, development or evaluation. These are treated as separate categories. The area of media is most directly related to development of instructional products. The two areas have been separated, however, to set general instructional product development apart from more specific development areas, such as, instructional films, programmed instruction, or educational games.

The R&D personnel and training area is a distinct category. It includes documents dealing specifically with research on the educational R&D process, personnel requirements, supply and demand, training models and programs. The personnel and training category suggests the "structure" for which the other areas provide the "curriculum content."

The majority of the listed items are available from publishers or other distributors. A few out-of-print items have been cited because they were considered unusually valuable. If an item has been published by more than one organization, the most accessible source is identified. The 1972 issue of Books in Print is the source of most price information. In a few cases, the price information may be out of date. If an item is available in both cloth and paperback editions, both prices are noted.

The rationale, criteria and method for selecting items have been described in detail elsewhere (Hood, July 1973, pp. 1-11). Stated briefly, we have recommended a collection which should aim at quality, rather than comprehensiveness, and which should be responsive to users needs and NIE policy requirements, rather than passively representative of what is conveniently available. Effort was made to "balance" the collection among major areas, to provide adequate holdings in less well-documented areas and, especially, in high-need areas (e.g., evaluation), and to select specific items within a content area in terms of "marginal utilities."

Handbooks and collections of readings are included to provide "entry" pointed to a much broader range of content. Several "annual reviews" included in the Recommended Journals and References also serve this purpose.

This list is submitted only as a starter. We make no claims for comprehensiveness. Time and resources available were simply insufficient. The list is based on the experimental collection established during the early Design Phase of the project, but has been updated and enriched. It reflects primarily the judgment of the writer. There is more redundancy among items in some areas than our "marginal utility" rule would allow. Clearly, there are omissions. The subject areas we have attempted to encompass and the limited time available to search and evaluate items have prevented a more definitive work. Nevertheless, we believe the list will prove useful, if it is subjected to external review and criticism, preferably by several persons conversant with the several subject areas, and then refined. The design project's resources and time line have precluded this needed step.

Paul D. Hood

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EDUCATIONAL R&D

EDUCATIONAL R&D--ROLES, POLICY, STRATEGY

Bailey, S., & Mosher, E. ESEA: The Office of Education Administers A Law. Syracuse, N.Y.: Syracuse University Press, 1968. \$10.00

Bright, J. R. (ed.) Research, Development and Technological Innovation. Homewood, Ill.: Richard D. Irwin Inc., 1964. \$17.70; text ed. \$13.25

Bright, R. L., & Gideonse, H. D. Educational Research and its Relationship to Policy: An Analysis Based on the Experience of the United States. Paper presented to the Committee on Scientific and Technical Personnel, OECD. Washington, D. C., 1967. (ERIC ED 018 866).

Burns, T., & Stalker, G. M. The Management of Innovation (2nd. ed.) London: Tavistock Publications, Social Science Paperback, 1966. £1.35 ISBN: 422-72050X.

Callahan, R. E. Education and the Cult of Efficiency. Chicago, Ill.: The University of Chicago Press, 1962. \$2.45.

Committee for Economic Development. Innovation in Education: New Directions for the American School. New York: Committee for Economic Development, 1968.

Cronbach, L. J., & Suppes, P. (eds.) Research for Tomorrow's Schools: Disciplined Inquiry for Education. New York: Macmillan Co., 1969. \$6.95; pap. \$3.95 LC 70 81074.

Ellul, J. The Technological Society. Translated by John Wilkinson. New York: Albert A. Knopf, 1964. \$10.95

Freeman, H. E., & Sherwood, C. C. Social Research and Social Policy. Englewood Cliffs, N. J.: Prentice-Hall, 1970. Ref. ed. \$5.95; paper text ed. \$2.50.

Glaser, R. (ed.) Training Research and Education. New York: Science Editions, 1965. \$2.65 LC 62-7930.

Glass, G. V., & Worthen, B. R. Interrelationships Among Research and Research-Related Roles in Education: A Conceptual Framework. Technical Paper No. 4, Task Force on Training Research and Research-Related Personnel. Washington, D. C.: American Educational Research Association, June, 1970.

EDUCATIONAL R&D--ROLES, POLICY, STRATEGY (CONTINUED)

Goodman, P. Compulsory Miseducation. New York: Horizon Press, 1964.

Gouldner, A. Explorations in Applied Social Science. In Gouldner, A. and Miller, S. H. (eds.) Applied Sociology. New York: Free Press, 1965. \$8.95.

Guba, E. G. Development, Diffusion and Evaluation. Bloomington, Ind.: National Institute for the Study of Educational Change, Oct. 1967. (ERIC ED 015 534).

Hansen, W. L. (ed.) Education, Income, and Human Capital. New York: National Bureau of Economic Research, Columbia University Press, 1970. Text ed. \$10.00.

Illich, I. Deschooling of Society. New York: Harper and Row, 1970.

Johns, R. L., et al. (eds.) Economic Factors Affecting the Financing of Education. Gainesville, Fla.: National Educational Finance Project, 1970.

Klausmeier, H. J., & O'Hearn, G. T. (eds.) Research and Development Toward the Improvement of Education. Madison, Wis.: Dembar Educational Research Services, 1968. \$7.25. LC 68-58116.

Lindeman, J., Bailey, S., Berke, J., & Naum, L. H. Some Aspects of Educational Research and Development in the United States. Syracuse, N. Y.: Policy Institute of the Syracuse University Research Corporation, 1969.

Lyons, G. The Uneasy Partnership: Social Sciences and the Federal Government in the Twentieth Century. New York: Russell Sage, 1969. \$8.50

Marschak, T. K., Glennan, T. K. Jr., and Summers, R. Strategies for R&D. New York: Springer-Verlag, 1967.

Mayeske, G., et al. A Study of Our Nation's Schools. Washington, D. C.: U. S. Office of Education, 1969.

McConnell, T. R. Research or Development: A Reconciliation. (Monograph) Bloomington, Ind.: Phi Delta Kappa International, 1967.

Morphet, E. L., et al. Designing Education for the Future. New York: New York Citation Press, School Book Service.
No. 1. Prospective Changes in Society by 1980, 1967. \$3.25 LC 67-22887.

Ibid., No. 2. Implications for Education of Prospective Changes in Society, 1967. \$3.25 LC 67-22888.

EDUCATIONAL R&D--ROLES, POLICY, STRATEGY (CONTINUED)

Ibid., No. 3. Planning & Effecting Needed Changes in Education. 1967. \$3.25 LC 67-24865.

Ibid., No. 4. Cooperative Planning for Education in 1980: Objectives, Procedures, Priorities. 1968. \$3.25 LC 67-22887.

Ibid., No. 5. Emerging Designs for Education: Programs, Organization, Operation and Finance. 1968. \$3.25 LC 67-22887.

Ibid., No. 6. Planning for Effective Utilization of Technology in Education. 1969. \$3.25 LC 67-22887.

Ibid., No. 7. Preparing Educators to Meet Emerging Needs. 1969. \$3.25 LC 67-22887.

Muller, H. J. The Children of Frankenstein--A Primer on Modern Technology and Human Values. Bloomington, Ind.: Indiana University Press, 1971. \$2.95.

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Nelson, R. R., Peck J., & Kalachek, E. D. Technology, Economic Growth and Public Policy. Washington, D. C.: The Brookings Institution, 1967. \$6.95.

Nixon, R. Message on Educational Reform. March 3, 1970.

Office of Education. Research and Development: Advances in Education. Office of Education, Department of HEW. Washington, D. C.: U. S. Government Printing Office, 1968. GPO # 1968 O-312-662.

Peters, R. S. Ethics and Education. London: George Allen and Unwin, 1966.

Phillips, B. S. Social Research: Strategy and Tactics. New York: Macmillan, 1966. \$8.95

Quattlebaum, C. A. Federal Educational Policies, Programs and Proposals: A Survey and Handbook. (90th Congress, 2nd session, House Document No. 398) Part II Survey of Federal Educational Activity. Washington, D. C.: U. S. Government Printing Office, 1968. \$2.25 House Document 398.

Ribich, T. Education and Poverty. (Studies in Social Economics, Vol. 3.) Washington: The Brookings Institution, 1968. \$5.50

Rivlin, A. M. Systematic Thinking for Social Action. Washington, D. C.: The Brookings Institution, 1971. \$5.95; pap. \$2.50

EDUCATIONAL R&D--ROLES, POLICY, STRATEGY (CONTINUED)

Silberman, C. E. Crisis in the Classroom: The Remaking of American Education. New York: Random House, 1970. \$10.00

Storer, N. W. Basic Versus Applied Research: The Conflict Between Means and Ends in Science. Cambridge, Mass.: Harvard University Press, 1964.

U. S. Congress. Federal Research and Development Programs: The Decision-Making Process. House Report No. 1664. Washington, D. C.: U. S. Government Printing Office, 1966.

U. S. Congress, (House Committee on Government Operations, Research and Technical Programs Subcommittee). The Use of Social Research in Federal Domestic Programs, Vol. III, 90th Congress, 1st session. Washington, D.C.: U. S. Government Printing Office, 1967.

U. S. Department of Health Education and Welfare. The Institutional Guide to DHEW Policy on Protection of Human Subjects. DHEW Publication No. (NIH) 72-102. Washington, D. C.: U. S. Government Printing Office, 1971. 25¢ GPO # 1740-0326.

U. S. Office of Education, National Center for Educational Research and Development. Educational Research and Development in the United States. Washington, D. C.: USOE Final Report, OEDC Policy Review, December, 1969. GPO # HE 5-212:12049.

Venn, G. Man, Education and Manpower. Washington, D. C.: American Association of School Administrators, 1970.

Vollmer, H. M., & Mills, D. L. (eds.) Professionalization. Englewood Cliffs, N. J.: Prentice-Hall, 1966. \$9.95.

Wildavsky, A. The Politics of the Budgeting Process. Boston: Little, Brown and Co., 1964. \$3.95.

Wilensky, H. L. Organizational Intelligence: Knowledge and Policy in Government and Industry. New York: Basic Books, 1967. \$5.95; paper text ed., \$2.95.

EDUCATIONAL R&D--ORGANIZATION, R&D CENTERS, LABORATORIES

Baldrige, J. V., & Johnson, R. The Impact of Educational R&D Centers and Laboratories: An Analysis of Effective Organizational Strategies (Final report of the National Academy of Education). Stanford, Ca.: School of Education, Stanford University, 1972.

Chase, F. S. The Mixed Report Card. (A background paper by Francis S. Chase submitted to the Select Committee on Education, U. S. House of Representatives) April, 1971.

EDUCATIONAL R&D--ORGANIZATIONS, R&D CENTERS, LABORATORIES (CONTINUED)

Hoehn, L. P. The Regional Educational Laboratories as Change Agents. (Doctoral Dissertation, Michigan State University), Ann Arbor, Mich.: University Microfilms, 68-7902, 1967. (ERIC ED 035 096)

Lazarsfeld, P. F., & Sieber, S. D. Organizing Educational Research: An Exploration. Englewood Cliffs, N. J.: Prentice Hall, 1964.

Liu, B. A. Educational Research in Major American Cities. New York: King's Crown Press, 1945.

Parker, L. A. The Structure, Management and Development of Federally Funded "Permanent" Educational Research and Development Organizations. (Doctoral Dissertation, Revised Version, Graduate School of Education, Harvard University.) Cambridge, Mass.: 1970.

Sieber, S. D. The Organization of Educational Research in the United States. New York: Bureau of Applied Social Research, Columbia University, 1966.

EDUCATIONAL R&D--JOURNAL ARTICLES*

EDUCATIONAL R&D--ROLES, POLICY, STRATEGY

Boyan, N. J. The Political Realities of Educational R&D. Journal of Research and Development in Education, 2, 3-18, 1969.

Chase, F. S. Educational Research and Development: Promise or Mirage? Journal of Research and Development in Education, 1, (4), 3-14, 1968.

Chase, F. S. R&D in the Remodeling of Education. Phi Delta Kappan, 51, (6), 299-304, 1970.

Cross, K. When Will Research Improve Education? Research Reporter, 2, (4), 1967. (ERIC ED 025 206)

Etzioni, A. Policy Research. The American Sociologist, 6, 8-12, 1971.

Gideonse, H. D. Research, Development and the Improvement of Education. Science, 162, 541-545, 1968.

Gideonse, H. D. The OECD Policy Review of U. S. Educational R&D. Educational Researcher, 21, 5-8, 1970.

Hemphill, J. K. Educational Development. The Urban Review, 4, (2), 23-27, 1969.

Hilgard, E. R. The Problem of R&D Within Behavioral Sciences. Journal of Research and Development in Education, 2, (4), 37-48, 1969.

Kenefick, R., & Paznak, J. From Research to Development: Education Comes of Age. The Urban Review, 4, (3), 24-28, 1970.

Schutz, R. E. The Nature of Educational Development. Journal of Research and Development in Education, 3, 39-64, 1970.

Schutz, R. E. Research, Development and Improvement in Education. In Psychology in the Schools, 5, 303-309, 1968.

*

The relative dearth of pertinent books on educational R&D roles, policy and strategy and on R&D organizations prompted us to make an exception by listing relevant journal articles in these areas. Our recommendation is that these articles be copied and placed either in separate folders in an adjacent vertical file or in cardboard covers with the books and monographs.

EDUCATIONAL R&D--ORGANIZATION, R&D CENTERS, LABORATORIES

Bloom, B. S. Research and Development Centers: Promise and Fulfillment. Journal of Research and Development in Education, 1, (4), 181-189, 1968.

Boyan, N. J., & Mason, W. S. Perspectives on Educational R&D Centers. Journal of Research and Development in Education, 1, (4), 190-202, 1968.

Brownell, S. M. R&D Centers and the Schools: A Reaction to Progress Reports. Journal of Research and Development in Education, 1, (4), 173-180, 1968.

Chase, F. S. The Laboratories: 1970 and Beyond. Journal of Research and Development in Education, 3, (2), 104-120, 1970.

Chase, F. S. The R&D Institutional Base: What More is Needed? Journal of Research and Development in Education, 2, (4), 19-27, 1969.

Findley, W. G., & Wittrock, M. C. (eds.) USOE Research and Development Centers: An Assessment. Journal of Research and Development in Education, (Entire Issue), 1, (4), Summer, 1968. \$2.00

Freed, M. N. The Regional Education Laboratories: Bane or Benefit? School and Society, 95, (2298), 494, 1967.

Stockton, R. (ed.) Organization for Research: New Patterns, New Perspectives. Journal of Research and Development in Education, (Entire issue), 5, (4), Summer, 1972. \$2.00

R&D PLANNING AND MANAGEMENT

R&D PLANNING AND MANAGEMENT--PLANNING AND CONTROL

- Ackoff, R. A Concept of Corporate Planning. New York: Interscience Publishers, Inc., 1970.
- Bonini, C. P. (ed.) Management Controls: New Directions in Basic Research. New York: McGraw-Hill Book Co., 1964
- Emery, J. C. Organizational Planning and Control. New York: The MacMillan Co., 1969. \$6.95
- Kaufmann, A. The Science of Decision-Making: An Introduction to Praxeology. New York: McGraw-Hill, 1968. \$4.95; pap. \$2.45
- Leavitt and Pondy (eds.) Readings in Managerial Psychology. Chicago: University of Chicago Press, 1964. \$10.00; pap. \$4.75
- LeBreton, P. P., & Henning, D. A. Planning Theory. Englewood Cliffs, N. J.: Prentice-Hall, Inc., 1961. \$12.40
- Simon, H. A. The New Science of Management Decision. New York: Harper and Row Publishers, 1960. \$4.95
- Wold, H. O. A., & Jureen, L. Demand Analysis. New York: John Wiley and Sons, 1953. \$12.75
- Young, S. Management: A System Analysis. Glenview, Ill.: Scott, Foresman, and Co., 1966.

R&D PLANNING AND MANAGEMENT--PLANNING, PROGRAMMING, BUDGETING AND INFORMATION SYSTEMS

- Andrew, G. M., & Moir, R. E. Information--Decision Systems in Education. (Management Series in Education No. 7) Itasca, Ill.: F. E. Peacock Publishers Inc., 1970. Text ed. \$3.95
- Armitage, P., Smith, C., & Alper, P. Decision Models for Educational Planning. London: Allen Lane, The Penguin Press, 1969. \$10.00
- Archibald, R. D., & Villoria. Network-Based Management Systems. New York: John Wiley and Sons, Inc., 1967. \$17.00
- Cook, D. L. Program Evaluation and Review Technique: Applications in Education. OE-12024. Cooperative Research, Monograph No. 17. Washington, D. C.: Department of Health, Education, and Welfare, Office of Education, Government Printing Office, 1966.
- Federal Electric Corporation (ITT). A Programmed Introduction to PERT. New York: John Wiley and Sons, 1963.
- Goodlad, J. I., O'Toole, J. F., Jr., & Tyler, L. L. Computers and Information Systems in Education. New York: Harcourt, Brace and World, 1966. Text ed. \$7.50

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- Handy, H. W., & Hussain, K. M. Network Analysis for Educational Management. Englewood Cliffs, N. J.: Prentice-Hall, Inc., 1969. \$9.15
- Hartley, H. J. Educational Planning-Programming-Budgeting: A Systems Approach. Englewood Cliffs, N. J.: Prentice-Hall, 1968. \$9.65
- Leyden, F. J., & Miller, E. R. (eds.) Planning, Programming, Budgeting: A Systems Approach to Management. Chicago: Markham Publishing, 1968.
- Likert, R. New Patterns of Management. New York: McGraw-Hill Book Co., 1961. \$10.50.
- Novick, D. (ed.) Program Budgeting. Cambridge, Mass.: Harvard University Press, 1965.
- Parnes, H. S. Forecasting Educational Needs for Economic and Social Development. Paris: OECD, 1962.
- Woodgate, H. S. Planning by Network. London, England: Business Publications, Ltd., 1964.

R&D PLANNING AND MANAGEMENT--R&D PROJECT MANAGEMENT AND EVALUATION

- American Institute for Research. Evaluating the Performance of Research Personnel: A Manual for Supervisors. Pittsburgh, Pa.: American Institute for Research, 1951.
- Altman, J. W., & Mahlon, V. T. Development of a Record Form for Evaluating Research through the Report. Pittsburgh, Pa.: American Institute for Research, 1954.
- Baumgartner, J. S. Project Management. Homewood, Ill.: Richard D. Irwin, Inc., 1963.
- Brown, E. K. Management and Budget Control System for Educational Research and Evaluation. New York: Carlton. \$3.00.
- Bush, G. P. Bibliography on Research Administration--Annotated. Washington, D. C.: University Press of Washington, D. C., 1954. \$4.00.
- Bush, G. P., & Hattery, L. H., (eds.) Scientific Research: Its Administration and Organization. Washington, D. C.: American University Press, 1950. \$4.00.
- Cook, D. L. Educational Project Management. Columbus, Ohio: Charles E. Merrill, 1971. \$8.50 LC 70-134431.
- Davitz, J. R., & Davitz, L. J. Guide for Evaluating Research Plans in Education and Psychology. New York: Teachers College, Columbia University, 1967.

R&D PLANNING AND MANAGEMENT--R&D PROJECT MANAGEMENT AND EVALUATION (CONTINUED)

- Dean, B. V. Evaluating, Selecting, and Controlling R&D Projects. Research Study 89. New York: American Management Association, 1968.
- Evans, G. C. Supervising R&D Personnel. New York: Management Association, Inc., 1969.
- Hayes, S. P. Measuring the Results of Development Projects. New York: UNESCO Monograph in Applied Social Sciences, 1959.
- Hodges, C. S. Measuring Educational Research Quality and Its Correlates. New York: Bureau of Applied Social Research, Columbia University, 1967.
- Lipetz, B. The Measurement of Efficiency of Scientific Research. Carlisle, Mass.: Intermidia, Inc. \$9.00 LC 65-23581.
- Mason, E. J. On the Appropriate Size of a Development Program. AMS Press, 1964. \$7.50
- Rosenberg, H. H., & Bain, H. M., Jr. Program Planning for Research and Development in the Navy. New York: Washington Research Office, Syracuse University, 1964.
- U. S. Congress, House Select Committee on Government Research. The Administration of Research and Development Grants. Washington, D. C.: U. S. Government Printing Office, 1964.
- Villers, R. Research and Development Planning and Control. New York: Financial Executives Research Foundation, Inc., 1964.
- Weschler, I. R., & Brown, P. (eds.) Evaluating Research and Development. Los Angeles: Institute of Industrial Relations, University of California, 1953.
- Yovito, M. C. et al. (eds.) Research Program Effectiveness. New York: Gordon & Breach, Science Publishers, Inc., 1966.

R&D PLANNING AND MANAGEMENT--COST AND ANALYSIS FOR PLANNING

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*The relative dearth of pertinent books on educational R&D roles, policy and strategy and on R&D organizations prompted us to make an exception by listing relevant journal articles in these areas. Our recommendation is that these articles be copied and placed either in separate folders in an adjacent vertical file or in cardboard covers with the books and monographs.

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